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NOTICE OF ALLOWANCE AND FEE(S) DUE

23599

7590

12/14/2010

MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD.
SUITE 1400
ARLINGTON, VA 22201

EXAMINER

WEDDLE, ALEXANDER MARION

ART UNIT PAPER NUMBER

1714

DATE MAILED: 12/14/2010

APPLICATION NO.			ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,354	09/22/2005	Adalbert Huber	MERCK-2968	3006

TITLE OF INVENTION: HARDENING AND DRYING OF LACQUER SYSTEMS AND PRINTING COLORS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/14/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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ARLINGTON, Y	VA 22201							(Depositor's name)
				_				(Signature)
				<u> </u>				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/519,354	09/22/2005		Adalbert Huber			I	MERCK-2968	3006
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APPLN. TYPE	NO	\$1510	\$300	JUE		LEE	TOTAL FEE(S) DUE \$1810	03/14/2011
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PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pa g an a CITY	tent. If an assignous ssignment. and STATE OR C	OUNT	TRY)	cument has been filed for
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/519,354	0/519,354 09/22/2005 Adalbert Huber		MERCK-2968	3006	
23599 75	590 12/14/2010		EXAM	INER	
MILLEN, WHIT	E, ZELANO & BRA	WEDDLE, ALEXANDER MARION			
2200 CLARENDO	ON BLVD.	ART UNIT	PAPER NUMBER		
SUITE 1400 ARLINGTON, VA	SUITE 1400 ARLINGTON, VA 22201			0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 295 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 295 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No		Applicant(s)					
	10/519,354		HUBER, ADALBERT					
Notice of Allowability	Examiner		Art Unit					
	 ALEXANDER W	/EDDLE	1714					
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) (or other appropri IGHTS. This appl 3 and MPEP 1308	CLOSED in this app ate communication lication is subject to	olication. If not include will be mailed in due	ed course. THIS				
1. This communication is responsive to Claim amendments o	of 30 September 2	<u>010</u> .						
2. X The allowed claim(s) is/are <u>1-4,7-9,14-17,19-28,30,31 and</u>	<u>35-39</u> .							
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.	.,,,,						
3. ☐ Certified copies of the priority documents have				tion from the				
International Bureau (PCT Rule 17.2(a)).			mational stage applicat					
* Certified copies not received:								
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			complying with the rec	quirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				OTICE OF				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.							
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Draw	ing Review (PTO-	948) attached					
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	1) hereto or 2) to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date								
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				back) of				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				Note the				
Attachment(s)	5 - - 1	lating of Informal D	latant Annliaatian					
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3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat Examiner's Amendn	e						
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 Examiner's Comment Regarding Requirement for Deposit of Biological Material Examiner's Statement of Reasons for Allogous Material 								
ALEVANDED WEDDLE!		Other <u>Restriction red</u>	<u>quirement</u> .					
/ALEXANDER WEDDLE/ Examiner, Art Unit 1714		/Michael Kornakov/ Supervisory Patent Examiner, Art Unit 1714						

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Art Unit: 1714

EXAMINER'S COMMENT/ RESTRICTION

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4, 7-9, 14-17, 19-28, 30-31, and 35-39, drawn to a method for curing or drying a surface-coating layer or printing ink.

Group II, claim(s) 11, 29, 32-34, and 40, drawn to a surface coating or printing ink composition.

2. The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Groups I and II lack unity of invention because even though the inventions of these groups require the technical feature of a surface coating or printing ink composition, comprising one or more pale or transparent particulate semiconductor materials or particulate in an amount of 0.1-5% by weight or particulate substrates coated with pale or transparent semiconductor materials and one or more carriers to form the surface coating or printing ink composition, this technical feature is not a special technical feature as it does not make a contribution over the prior art in view of Faris (WO 2003/096384). WO'384 teaches an ink composition comprising one or more pale or transparent particulate semiconductor materials, such as ZnO.

3. During a telephone conversation with Csaba Henter on 19 November 2010 a provisional election was made without traverse to prosecute the invention of Group I,

to a non-elected invention.

claims 1-4, 7-9, 14-17, 19-28, 30-31, and 35-39. Affirmation of this election must be made by applicant in replying to this Office action. Claims 11, 29, 32-34, and 40 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn

Page 3

4. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double

patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Csaba Henter on 19 November 2010.

The application has been amended as follows:

Cancel Claims 11, 29, 32-34, and 40

In Claim 1, line 6, replace the phrase "semiconductor materials, wherein the one or more semiconductor materials absorb in the IR region" with

-- semiconductor materials, which absorb in the infrared (IR) region and which accelerate curing or drying the surface-coating layer or printing ink --

In Claim 21, line 4, after the phrase "ink by" delete the word "IR" and insert -- infrared (IR) --

In Claim 21, line 9, after the phrase "absorb in the IR region" insert

-- and accelerate curing or drying the surface-coating layer or printing ink --

REASONS FOR ALLOWANCE

6. The following is an examiner's statement of reasons for allowance:

Claims 1-4, 7-9, 14-17, 19-28, 30-31, and 35-39 are allowed as patentably distinct over the closest prior art of record. The closest prior art of record is Faris (WO 2003/096384).

Regarding Claims 1 and 21, Faris (WO'384) suggests a method of coating with transparent conductive ink, comprising the steps of adding to a surface-coating composition or printing ink one or more pale or transparent particulate semiconductor materials, including indium tin oxide, zinc oxide, doped zinc oxide, and doped tin oxide in spherical or flake-form; applying to a surface the ink or surface-coating composition to form a surface-coating layer; and drying the surface-coating layer or ink, including an auxiliary curing step by heat and/ or ultraviolet radiation.

WO'384 fails to teach or suggest fairly a step of drying or curing with infrared (IR) radiation or that the materials absorb in the IR region and accelerate drying or curing by IR radiation.

No other prior art that anticipates or fairly suggests the instant claims has been located as of the date of this office action.

Therefore, independent Claims 1 and 21 are allowed over the prior art of record. Claims 2-4, 7-9, 14-17, 19-20, 22-28, 30-31, and 35-39 are allowed as depending from the allowed independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER WEDDLE whose telephone number is (571) 270-5346. The examiner can normally be reached on Monday-Thursday, 7:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Kornakov can be reached on (571)272-1303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 1714

/ALEXANDER WEDDLE/ Examiner, Art Unit 1714 /Michael Kornakov/ Supervisory Patent Examiner, Art Unit 1714